18. Examine the syntax of creating a new database and a new table in MySQL.

19. Exemplify the Control Statements available in PHP.

20. Discuss about the usage of Cookies and Sessions in PHP.

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NOVEMBER/DECEMBER 2025

BCS62 — OPEN SOURCE PROGRAMMING

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is PHP primarily used for in web development?

2. Give an example of a CSS Selector.

3. How do you view running processes on Linux?

4. What is a shell in Linux?

5. Write a SQL query to insert a new row into a table.

6. What is the command to export a MySQL database?

7. How do you create and access elements in an Array in PHP?

8. What are the rules for naming Variables in PHP?

9. What SQL statement is used to retrieve data from a database?

10. How do you delete records from a table using SQL?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the purpose and key features of the HTML5 <canvas> element.

Or

(b) How does JavaScript enhance user interaction on Web Pages? Explain.

12. (a) Illustrate the hierarchical Linux File System Structure.

Or

(b) Narrate the different modes of vi editor and explain each of them.

13. (a) Exemplify the Select, Insert, Update and Delete Statements in MYSQL.

Or

(b) How do foreign keys define relationships between tables? Provide an example of how to add a foreign key.

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14. (a) Describe how functions help in modularizing code in PHP.

Or

(b) How to create and access Array elements in PHP? Explain with an example.

15. (a) Enumerate the steps to connect PHP to a MySQL database.

Or

(b) Describe how to start a session and store information in Session Variables.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the benefits of PHP, JavaScript, CSS, and HTML5.

17. Explicate the common partition types and tools used to create partitions in Linux.